

Helping Massachusetts Municipalities Create a Cleaner Energy Future

COMMONWEALTH OF MASSACHUSETTS Charles Baker, Governor Matthew Beaton, Secretary Judith Judson, Commissioner

RSC II Municipal Permitting Case Studies



Tony Barletta and Kara Sergeant, Department of Energy Resources

Chad Laurent and Will Hanley, Meister Consultants Group

Recording & Presentation

- The webinar is being recorded and will be available on our website in approximately 48 hours at: http://www.mass.gov/eea/energy-utilities-cleantech/webinars.html
- Click on the camera icon top right of your screen to save any slides for future reference
- Use the Q & A icon on your screen to type in
- The slide presentation will also be posted at: http://www.mass.gov/eea/energy-utilities-cleantech/webinars.html





Green Communities Division

The energy hub for **all** Massachusetts cities and towns, not just designated "Green Communities."



Outreach - Regional Coordinators

- Regional Coordinators act as direct liaisons with cities and towns on energy efficiency and renewable energy activities
- Located at each of the DEP Regional Offices:



Green Communities Division -Programs & Resources for Municipalities

- Green Communities Designation and Grant Program
- MassEnergyInsight energy tracking and analysis tool
- Municipal Energy Efficiency Assistance
- Energy Management Services Technical Assistance
- Mass Municipal Energy Group (MMEG)
- · Website filled with tools & resources: www.mass.gov/energy/greencommunities

Email updates via e-blasts - Sign up by sending an email to:

join-ene-greencommunities@listserv.state.ma.us



Green Communities 2016 Competitive Grant Program

- The Green Communities 2016 competitive grant application program is now available on Commbuys and the Green Communities Division website
- To be eligible, Green Communities must have:

 - Expended all prior Green Communities designation and competitive grant funds; Submitted their FY 2015 Annual Report and satisfied all outstanding questions no later than 5 pm February 12, 2016
 - Submitted their final grant report and satisfied all outstanding questions no later than 5 pm February 26, 2016
 Completed all site inspections with your regional coordinator by March 11, 2016
- All questions on the application must be submitted through Commbuys by 5pm on March 18, 2016.
- Applications must be submitted online by 5pm on March 25, 2016. You must be registered to access





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Massachusetts

MA DOER - develops and implements policies and programs aimed at ensuring the adequacy, security, diversity, and cost-effectiveness of the Commonwealth's energy supply

http://www.mass.gov/eea/grants-and-tech-assistance/guidance-technicalassistance/agencies-and-divisions/doer/

Green Communities Division - strives to help all 351 Massachusetts cities and towns find clean energy solutions that reduce long-term energy costs and strengthen local economies

http://www.mass.gov/eea/energy-utilities-clean-tech/green-communities/

Mass Clean Energy Center (MassCEC) - dedicated to accelerating the success of clean energy technologies, companies and projects in Massachusetts—while creating high-quality jobs and long-term economic growth for the people of Massachusetts http://www.masscec.com/





MA Maturing Solar Market Installed Solar Capacity in Massachusetts (as of 11/1/15) ■Annual Capacity Installed (MW DC) → Cumulative Capacity (MW DC) 1,200 985 MW 1.000 800 200 0.04 0.28 0.59 0.81 1.84 1.64 3.64 9.66 22.90 47.56 138.0 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 Massachusetts has an aggressive target of 1600 MW of solar power installed for 2020. The above figures represent the cumulative amount installed as of November 2015, in 35,937 projects.

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DOE Rooftop Solar Challenge Round I

- . Goal: Reducing soft costs of small commercial and residential rooftop solar PV
 - Created an implementation guide for Community Shared Solar (CSS)
 - Reviewed and developed model local permitting process, including guidance for structural review
 - Developed model solar bylaw zoning language







Rooftop Solar Challenge Round II: **New England Solar Cost-Reduction Partnership**

- · Part of a five-state regional effort to target non-hardware "soft" costs for photovoltaic (PV) electricity systems and increasing coordination
- Coordinated by national energy nonprofit Clean Energy States Alliance (CESA)
- Focused on:
 - permitting and interconnection challenges;
 - the need for new financing tools; and
 - planning and zoning rule variations







Introduce Meister

Chad Laurent and Will Hanley. Meister Consultants Group

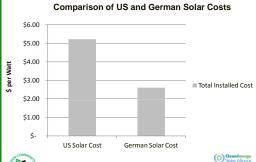
Poll Question 1:

- Have you seen MA DOER Model Permitting Guide for Municipalities?
 - Yes
 - No



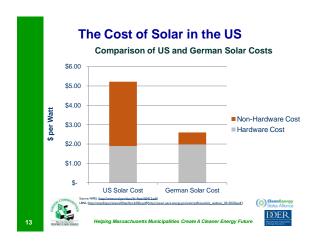


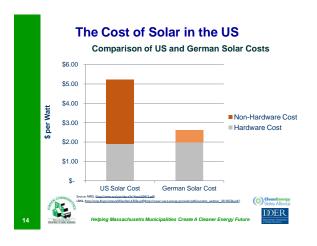
The Cost of Solar in the US

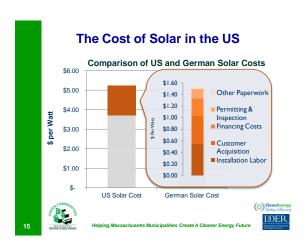




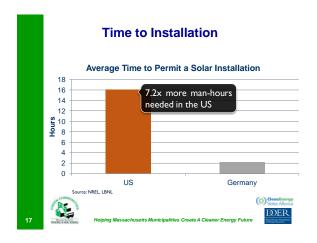


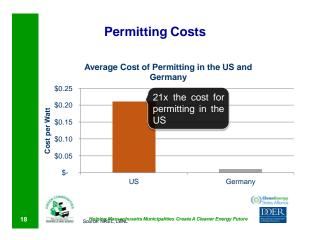












Germany's Success

Consistency and Transparency

through

Standardized Processes



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Poll Question 2

- For Solar Installers: How important is a streamlined permitting process in choosing which jurisdiction to be active?
 - Extremely Important
 - Important
 - Moderately Important, but doesn't affect our decision-making
 - Not important at all



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Why Streamline Permitting for Solar?

Promote Standards and Safety

Save Time and Taxpayer Dollars

Grow Local Economies









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What Did We Do?

- Interviewed 34 jurisdictions to get a snapshot of permitting processes across the state.
- Reviewed any changes in permitting fees or processes over the past 3 years.
- Developed 4 case studies to highlight best practices for solar PV permitting processes.



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Permitting Process 101





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Who Did We Ask?

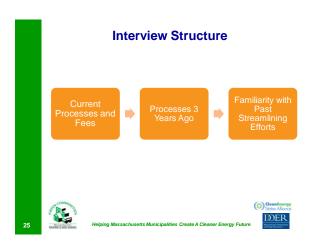




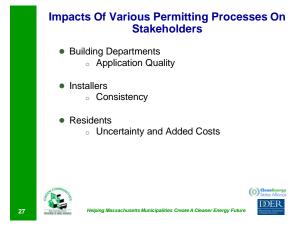
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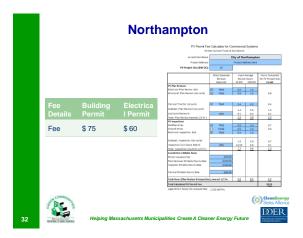


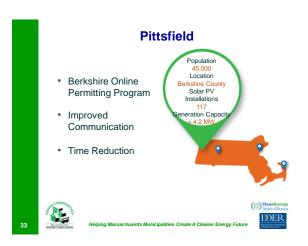


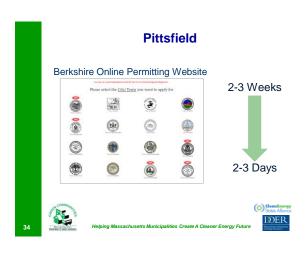




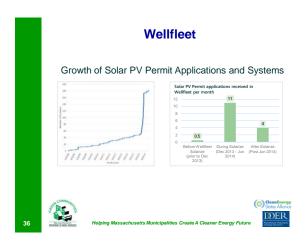












Poll Question 3

- What are the biggest barriers to streamling your permitting process?
 - Lack of Staff
 - Lack of funding
 - Lack of Training and Informational Resources
 - Our jurisdiction requires in-depth permitting process
 - Other



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Needs and Barriers



Resources



Staffing



Trainings



Transparency



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Existing Solutions in MA

- ✓ Model Permitting Guide
- √ Specific Solar Price Carve Outs
- ✓ Increased Transparency and Outreach
- ✓ Online Integration



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High Impact, Low Cost Solutions



Downloadable Application Form



Permitting Checklist



Inspector Specialization



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Elsewhere in New England



Connecticut

Permitting GuideOnline Permitting Demo



Vermont

Permit Issuance Automation



New Hampshire

- Streamlined Permitting Pilot



Rhode Island

- Permitting Guide
- All Municipalities Will Have Online Permitting



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Next Steps

- Check out case studies coming soon.
- Great resources from CESA and DOER
- Seek technical assistance as part of SPARC designation



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QUESTIONS??

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Renewable Energy Program Coordinator





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